This question paper contains 2 printed pages]

NB-22-2023

FACULTY OF SCIENCE AND TECHNOLOGY

B.Sc. (Second Year) (Third Semester) EXAMINATION NOVEMBER/DECEMBER, 2023

(New Pattern)

BIOTECHNOLOGY

DSEBT-4CII

(Plant Physiology)

(Wednesday, 6-12-2023) Time: 2.0	0 p.m. to 5.00 p.m.
Time—3 Hours Ma	ximum Marks—75
N.B.: (i) Attempt all questions.	S, SPIT
(ii) Figures to the right indicate full marks.	E. S.
(iii) Illustrate your answers with suitable diagram	m, scheme etc.
1. Give an account of mechanism of translocation of organ	ic solutes. 15
(a) Describe diffusion and guttation.	8
(b) Give the composition of phloem sap.	7
2. Describe ultra-structure of Chloroplast and functions.	15
F Or Str. Or	
(a) Describe photosynthetic pigments and their role.	8
(b) Describe light reaction.	7
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3.	Descr	ibe TCA cycle.		15
		Or De La Company		
	(a)	Describe chemiosmotic hypothesis of ATP synthesis.		8
	(<i>b</i>)	Describe types of respiration.		7
4.	Give	an account of different types of stresses in plants.	Dept	15
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	(a)	Describe Auxin and Cytokinin.		8
	(b)	Describe xenobiotics.		7
5.	Write	notes on (any three):		15
	(a)	Abscisic acid		
	(b)	Importance of respiration	ST	
	(c)	ETC.		
	(d)	CAM pathway		
\$5	(e)	Transpiration.		

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